GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: February 13, 2001, 14:08:59 ; Search time 39.07 Seconds
(without alignments)
7812.533 Million cell updates/sec

Title: US-09-481-990-1
Perfect score: 1894
Sequence: 1 GGGCAGGAAGACGGCGCTGC.....ATAATAAAAAAAAAAAAAAA 1894

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 280836 seqs, 80580151 residues

Total number of hits satisfying chosen parameters: 561672

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1894	100.0	1894	3	US-08-749-816-1	Sequence 1, Appli
	2	70.2	3.7	7218	1	US-08-232-463-14	Sequence 14, Appl
c	3	62.6	3.3	152331	3	US-09-128-155-16	Sequence 16, Appl
c	4	58.6	3.1	12001	1	US-08-458-568A-11	Sequence 11, Appl
	5	58.2	3.1	1931	2	US-09-130-114-2	Sequence 2, Appli
	6	58	3.1	2923	1	US-08-377-292-6	Sequence 6, Appli
	7	58	3.1	2923	2	US-07-989-847-7	Sequence 7, Appli
	8	58	3.1	2923	5	5187076-5	Patent No. 5187076
c	9	54.4	2.9	5011	1	US-08-141-893-1	Sequence 1, Appli
c	10	54.4	2.9	5011	1	US-08-463-092B-1	Sequence 1, Appli
c	11	54.4	2.9	5011	1	US-08-463-092B-3	Sequence 3, Appli
c	12	54.4	2.9	5011	2	US-08-462-109A-1	Sequence 1, Appli
c	13	54.4	2.9	5011	2	US-08-462-109A-3	Sequence 3, Appli
c	14	54.4	2.9	5011	2	US-08-460-907B-1	Sequence 1, Appli
c	15	54.4	2.9	5011	2	US-08-460-907B-3	Sequence 3, Appli
c	16	54.4	2.9	5011	3	US-08-463-179A-1	Sequence 1, Appli
c	17	54.4	2.9	5011	3	US-08-463-179A-3	Sequence 3, Appli
c	18	54.4	2.9	5011	3	US-08-461-384B-1	Sequence 1, Appli
c	19	54.4	2.9	5011	3	US-08-461-384B-3	Sequence 3, Appli
c	20	54.4	2.9	5011	3	US-08-407-207A-1	Sequence 1, Appli
	21	52.8	2.8	2580	3	US-09-050-863-2	Sequence 2, Appli
	22	52.8	2.8	2824	2	US-09-010-928B-3	Sequence 3, Appli
c	23	52.8	2.8	5452	2	US-09-130-114-1	Sequence 1, Appli
	24	52.8	2.8	10596	1	US-07-884-811-15	Sequence 15, Appl
	25	52.8	2.8	10596	1	US-07-885-971-15	Sequence 15, Appl
	26	52.8	2.8	10596	1	US-08-087-783A-15	Sequence 15, Appl
	27	52.8	2.8	10596	1	US-08-194-088B-15	Sequence 15, Appl
	28	52.8	2.8	10596	2	US-08-194-087-15	Sequence 15, Appl
	29	52.8	2.8	10596	4	PCT-US93-04648-15	Sequence 15, Appl
	30	52.4	2.8	30001	1	US-08-125-468-1	Sequence 1, Appli
	31	52.4	2.8	30001	2	US-08-474-933-1	Sequence 1, Appli
	32	52.4	2.8	43280	2	US-08-804-227C-1	Sequence 1, Appli
c	33	51.8	2.7	3489	2	US-08-728-323A-1	Sequence 1, Appli
	34	51.8	2.7	32207	2	US-08-770-379-20	Sequence 20, Appl
	35	51	2.7	8438	1	US-07-945-283-1	Sequence 1, Appli
	36	50.6	2.7	2793	1	US-08-209-747-1	Sequence 1, Appli
	37	50.6	2.7	2793	1	US-08-458-298-1	Sequence 1, Appli
c	38	49.6	2.6	936	1	US-08-018-977C-4	Sequence 4, Appli
	39	49.6	2.6	4362	2	US-08-455-073A-1	Sequence 1, Appli
	40	49.2	2.6	3765	3	US-07-705-490-1	Sequence 1, Appli
c	41	49	2.6	1896	1	US-08-605-541B-11	Sequence 11, Appl
	42	49	2.6	2214	3	US-08-864-038A-1	Sequence 1, Appli
	43	49	2.6	3331	3	US-08-864-038A-2	Sequence 2, Appli
	44	49	2.6	3331	3	US-08-864-038A-4	Sequence 4, Appli
	45	48.4	2.6	15378	3	US-08-785-420-1	Sequence 1, Appli

ALIGNMENTS

```
RESULT 1
US-08-749-816-1
; Sequence 1, Application US/08749816
; Patent No. 6013470
;  GENERAL INFORMATION:
;    APPLICANT:  Lesage, Florian
;    APPLICANT:  Guillemare, Eric
;    APPLICANT:  Fink, Michel
;    APPLICANT:  Duprat, Fabrice
;    APPLICANT:  Lazdunki, Michel
;    APPLICANT:  Romey, Georges
;    APPLICANT:  Barhanin, Jacques
;    TITLE OF INVENTION:  FAMILY OF MAMMALIAN POTASSIUM CHANNELS,
;    TITLE OF INVENTION:  THEIR CLONING AND THEIR USE ESPECIALLY FOR THE SCREENING
;    TITLE OF INVENTION:  OF DRUGS
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  WEISER & ASSOCIATES
;      STREET:  230 South Fifteenth Street, Suite 500
;      CITY:  Philadelphia
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19102
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/749,816
;      FILING DATE:  15-NOV-1996
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weiser, Gerard J.
;      REGISTRATION NUMBER:  19,763
;      REFERENCE/DOCKET NUMBER:  989.6351P
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-875-8383
;      TELEFAX:  215-875-8394
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1894 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  183..1190
US-08-749-816-1
```

```
  Query Match             100.0%;  Score 1894;  DB 3;  Length 1894;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1894;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 GGGCAGGAAGACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 GGGCAGGAAGACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCG 60

Qy      61 GCGGGCGGGAGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGC 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 GCGGGCGGGAGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGC 120

Qy     121 CGCGCTCCGGCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGA 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 CGCGCTCCGGCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGA 180

Qy     181 AGATGCTGCAGTCCCTGGCCGGCAGCTCGTGCGTGCGCCTGGTGGAGCGGCACCGCTCGG 240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 AGATGCTGCAGTCCCTGGCCGGCAGCTCGTGCGTGCGCCTGGTGGAGCGGCACCGCTCGG 240

Qy     241 CCTGGTGCTTCGGCTTCCTGGTGCTGGGCTACTTGCTCTACCTGGTCTTCGGCGCAGTGG 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 CCTGGTGCTTCGGCTTCCTGGTGCTGGGCTACTTGCTCTACCTGGTCTTCGGCGCAGTGG 300

Qy     301 TCTTCTCCTCGGTGGAGCTGCCCTATGAGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGA 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     301 TCTTCTCCTCGGTGGAGCTGCCCTATGAGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGA 360

Qy     361 AGCGACGCTTCTTGGAGGAGCACGAGTGCCTGTCTGAGCAGCAGCTGGAGCAGTTCCTGG 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     361 AGCGACGCTTCTTGGAGGAGCACGAGTGCCTGTCTGAGCAGCAGCTGGAGCAGTTCCTGG 420

Qy     421 GCCGGGTGCTGGAGGCCAGCAACTACGGCGTGTCGGTGCTCAGCAACGCCTCGGGCAACT 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     421 GCCGGGTGCTGGAGGCCAGCAACTACGGCGTGTCGGTGCTCAGCAACGCCTCGGGCAACT 480

Qy     481 GGAACTGGGACTTCACCTCCGCGCTCTTCTTCGCCAGCACCGTGCTCTCCACCACAGGTT 540
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     481 GGAACTGGGACTTCACCTCCGCGCTCTTCTTCGCCAGCACCGTGCTCTCCACCACAGGTT 540

Qy     541 ATGGCCACACCGTGCCCTTGTCAGATGGAGGTAAGGCCTTCTGCATCATCTACTCCGTCA 600
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     541 ATGGCCACACCGTGCCCTTGTCAGATGGAGGTAAGGCCTTCTGCATCATCTACTCCGTCA 600

Qy     601 TTGGCATTCCCTTCACCCTCCTGTTCCTGACGGCTGTGGTCCAGCGCATCACCGTGCACG 660
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     601 TTGGCATTCCCTTCACCCTCCTGTTCCTGACGGCTGTGGTCCAGCGCATCACCGTGCACG 660

Qy     661 TCACCCGCAGGCCGGTCCTCTACTTCCACATCCGCTGGGGCTTCTCCAAGCAGGTGGTGG 720
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     661 TCACCCGCAGGCCGGTCCTCTACTTCCACATCCGCTGGGGCTTCTCCAAGCAGGTGGTGG 720

Qy     721 CCATCGTCCATGCCGTGCTCCTTGGGTTTGTCACTGTGTCCTGCTTCTTCTTCATCCCGG 780
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     721 CCATCGTCCATGCCGTGCTCCTTGGGTTTGTCACTGTGTCCTGCTTCTTCTTCATCCCGG 780

Qy     781 CCGCTGTCTTCTCAGTCCTGGAGGATGACTGGAACTTCCTGGAATCCTTTTATTTTTGTT 840
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     781 CCGCTGTCTTCTCAGTCCTGGAGGATGACTGGAACTTCCTGGAATCCTTTTATTTTTGTT 840

Qy     841 TTATTTCCCTGAGCACCATTGGCCTGGGGGATTATGTGCCTGGGGAAGGCTACAATCAAA 900
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     841 TTATTTCCCTGAGCACCATTGGCCTGGGGGATTATGTGCCTGGGGAAGGCTACAATCAAA 900

Qy     901 AATTCAGAGAGCTCTATAAGATTGGGATCACGTGTTACCTGCTACTTGGCCTTATTGCCA 960
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     901 AATTCAGAGAGCTCTATAAGATTGGGATCACGTGTTACCTGCTACTTGGCCTTATTGCCA 960

Qy     961 TGTTGGTAGTTCTGGAAACCTTCTGTGAACTCCATGAGCTGAAAAAATTCAGAAAAATGT 1020
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     961 TGTTGGTAGTTCTGGAAACCTTCTGTGAACTCCATGAGCTGAAAAAATTCAGAAAAATGT 1020

Qy    1021 TCTATGTGAAGAAGGACAAGGACGAGGATCAGGTGCACATCATAGAGCATGACCAACTGT 1080
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1021 TCTATGTGAAGAAGGACAAGGACGAGGATCAGGTGCACATCATAGAGCATGACCAACTGT 1080

Qy    1081 CCTTCTCCTCGATCACAGACCAGGCAGCTGGCATGAAAGAGGACCAGAAGCAAAATGAGC 1140
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1081 CCTTCTCCTCGATCACAGACCAGGCAGCTGGCATGAAAGAGGACCAGAAGCAAAATGAGC 1140

Qy    1141 CTTTTGTGGCCACCCAGTCATCTGCCTGCGTGGATGGCCCTGCAAACCATTGAGCGTAGG 1200
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1141 CTTTTGTGGCCACCCAGTCATCTGCCTGCGTGGATGGCCCTGCAAACCATTGAGCGTAGG 1200

Qy    1201 ATTTGTTGCATTATGCTAGAGCACCAGGGTCAGGGTGCAAGGAAGAGGCTTAAGTATGTT 1260
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1201 ATTTGTTGCATTATGCTAGAGCACCAGGGTCAGGGTGCAAGGAAGAGGCTTAAGTATGTT 1260

Qy    1261 CATTTTTATCAGAATGCAAAAGCGAAAATTATGTCACTTTAAGAAATAGCTACTGTTTGC 1320
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1261 CATTTTTATCAGAATGCAAAAGCGAAAATTATGTCACTTTAAGAAATAGCTACTGTTTGC 1320

Qy    1321 AATGTCTTATTAAAAAACAACAAAAAAAAGACACATGGAACAAAGAAGCTGTGACCCCAGC 1380
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1321 AATGTCTTATTAAAAAACAACAAAAAAAAGACACATGGAACAAAGAAGCTGTGACCCCAGC 1380

Qy    1381 AGGATGTCTAATATGTGAGGAAATGAGATGTCCACCTAAAATTCATATGTGACAAAATTA 1440
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1381 AGGATGTCTAATATGTGAGGAAATGAGATGTCCACCTAAAATTCATATGTGACAAAATTA 1440

Qy    1441 TCTCGACCTTACATAGGAGGAGAATACTTGAAGCAGTATGCTGCTGTGGTTAGAAGCAGA 1500
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1441 TCTCGACCTTACATAGGAGGAGAATACTTGAAGCAGTATGCTGCTGTGGTTAGAAGCAGA 1500

Qy    1501 TTTTATACTTTTAACTGGAAACTTTGGGGTTTGCATTTAGATCATTTAGCTGATGGCTAA 1560
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1501 TTTTATACTTTTAACTGGAAACTTTGGGGTTTGCATTTAGATCATTTAGCTGATGGCTAA 1560

Qy    1561 ATAGCAAAATTTATATTTAGAAGCAAAAAAAAAAAGCATAGAGATGTGTTTTATAAATAG 1620
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1561 ATAGCAAAATTTATATTTAGAAGCAAAAAAAAAAAGCATAGAGATGTGTTTTATAAATAG 1620

Qy    1621 GTTTATGTGTACTGGTTTGCATGTACCCACCCAAAATGATTATTTTTGGAGAATCTAAGT 1680
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1621 GTTTATGTGTACTGGTTTGCATGTACCCACCCAAAATGATTATTTTTGGAGAATCTAAGT 1680

Qy    1681 CAAACTCACTATTTATAATGCATAGGTAACCATTAACTATGTACATATAAAGTATAAATA 1740
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1681 CAAACTCACTATTTATAATGCATAGGTAACCATTAACTATGTACATATAAAGTATAAATA 1740

Qy    1741 TGTTTATATTCTGTACATATGGTTTAGGTCACCAGATCCTAGTGTAGTTCTGAAACTAAG 1800
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1741 TGTTTATATTCTGTACATATGGTTTAGGTCACCAGATCCTAGTGTAGTTCTGAAACTAAG 1800

Qy    1801 ACTATAGATATTTTGTTTCTTTTGATTTCTCTTTATACTAAAGAATCCAGAGTTGCTACA 1860
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1801 ACTATAGATATTTTGTTTCTTTTGATTTCTCTTTATACTAAAGAATCCAGAGTTGCTACA 1860

Qy    1861 ATAAAATAAGGGGAATAATAAAAAAAAAAAAAA 1894
          ||||||||||||||||||||||||||||||||||
Db    1861 ATAAAATAAGGGGAATAATAAAAAAAAAAAAAA 1894


RESULT   2
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
;  GENERAL INFORMATION:
;    APPLICANT:  DORNER, F.
;    APPLICANT:  SCHEIFLINGER, F.
;    APPLICANT:  FALKNER, F. G.
;    TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
;    NUMBER OF SEQUENCES:  52
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
```

```
;       STREET:  1800 Diagonal Road, Suite 500
;       CITY:  Alexandria
;       STATE:  VA
;       COUNTRY:  USA
;       ZIP:  22313-0299
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/232,463
;       FILING DATE:
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/935,313
;       FILING DATE:
;       APPLICATION NUMBER:  EP 91 114 300.6
;       FILING DATE:  26-AUG-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  BENT, Stephen A.
;       REGISTRATION NUMBER:  29,768
;       REFERENCE/DOCKET NUMBER:  30472/114 IMMU
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (703)836-9300
;       TELEFAX:  (703)683-4109
;       TELEX:  899149
;   INFORMATION FOR SEQ ID NO:  14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  7218 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     IMMEDIATE SOURCE:
;       CLONE:  pTZgpt-F1s
US-08-232-463-14


  Query Match             3.7%;  Score 70.2;  DB 1;  Length 7218;
  Best Local Similarity   4.4%;  Pred. No. 1.4e-05;
  Matches   18;  Conservative  237;  Mismatches  150;  Indels    0;  Gaps    0;

Qy     457 TGCTCAGCAACGCCTCGGGCAACTGGAACTGGGACTTCACCTCCGCGCTCTTCTTCGCCA 516
           | |  |||    ||  | ||      ||| || |   |:: ::::: : :::::::::: ::
Db    1031 TTCCGAGCTTGGCTGCAGGTCGAGGGAGCTTGCGATYYYYYYYYYYYYYYYYYYYYYYYY 1090

Qy     517 GCACCGTGCTCTCCACCACAGGTTATGGCCACACCGTGCCCTTGTCAGATGGAGGTAAGG 576
           : :: : :::::: :: :   :: :  :: : :: : ::::: ::   :     :
Db    1091 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1150

Qy     577 CCTTCTGCATCATCTACTCCGTCATTGGCATTCCCTTCACCCTCCTGTTCCTGACGGCTG 636
           :::::: : :: ::: :::: :: ::  : :::::::: :::::::: :::::  :  ::
Db    1151 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1210

Qy     637 TGGTCCAGCGCATCACCGTGCACGTCACCCGCAGGCCGGTCCTCTACTTCCACATCCGCT 696
           :  :::  : : :: :: : : : :: ::: :   ::  :::::: ::::: : ::: ::
Db    1211 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1270

Qy     697 GGGGCTTCTCCAAGCAGGTGGTGGCCATCGTCCATGCCGTCCTCCTTGGGTTTGTCACTG 756
           :::::::   :   :  :  :: :: ::: : :: : :::::   ::: :: ::
Db    1271 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1330

Qy     757 TGTCCTGCTTCTTCTTCATCCCGGCCGCTGTCTTCTCAGTCCTGGAGGATGACTGGAACT 816
           : :::: :::::::::: ::::  :: :: :::::::  ::::       :  ::    ::
Db    1331 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1390

Qy     817 TCCTGGAATCCTTTTATTTTTGTTTTATTTCCCTGAGCACCATTG 861
           ::::    ::::::: ::::: :::: :::::::   : :: ::|
Db    1391 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYG 1435


RESULT   3
US-09-128-155-16/c
; Sequence 16, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
;  APPLICANT: Pan, Yang
;  TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
;  TITLE OF INVENTION: AND USES THEREOF
;  FILE REFERENCE: 09404/052001
;  CURRENT APPLICATION NUMBER: US/09/128,155
;  CURRENT FILING DATE: 1998-08-03
;  EARLIER APPLICATION NUMBER: US 60/091,650
;  EARLIER FILING DATE: 1998-07-02
;  EARLIER APPLICATION NUMBER: US 60/054,646
;  EARLIER FILING DATE: 1997-08-04
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 16
;   LENGTH: 152331
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(152331)
;   OTHER INFORMATION: n = A,T,C or G
US-09-128-155-16


  Query Match             3.3%;  Score 62.6;  DB 3;  Length 152331;
  Best Local Similarity   55.0%;  Pred. No. 0.0014;
  Matches  110;  Conservative    0;  Mismatches   90;  Indels    0;  Gaps    0;

Qy       1 GGGCAGGAAGACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCG 60
             ||   ||  |  || |  |  ||| || |||||| ||  ||| |||||||| | |||||
Db   22055 GGTGGGGGGGGGGGGGGGGGCGGGGGGGCGGGGGGGTGGGGGGCGCGGGGGGGGGGGCG 21996

Qy      61 GCGGGCGGGAGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGC 120
           | | ||||| |   ||   ||| || || |||    | |||||  |  | || ||||||
Db   21995 GGGCGCGGGGGGGGGGGGGGGGGGGGTGGGGGGCCGCGGGGGGCGGGCCGGGGGGGCGGGG 21936

Qy     121 CGCGCTCCGGCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGA 180
           | |   ||||| |   | ||||  ||    ||    ||    || || || || ||
Db   21935 GGGGGCGCGGCCCGCNCGGGGCGGGGGGGGGAGGGGGGGGGGGGGGGGGGGGGGGGNG 21876

Qy     181 AGATGCTGCAGTCCCTGGCC 200
           |     | |   ||
Db   21875 NNNNNGTNNNACCNCCCACC 21856


RESULT   4
US-08-458-568A-11/c
; Sequence 11, Application US/08458568A
; Patent No. 5821339
;  GENERAL INFORMATION:
;    APPLICANT:  Schaffer, Priscilla A.
;    APPLICANT:  Yeh, Lily
;    TITLE OF INVENTION:  Compositions and Methods for Treatment of Herpesvirus
;    TITLE OF INVENTION:  Infections
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Woodcock, Washburn, Kurtz, Mackiewicz & No. 5821339ris
;      STREET:  One Liberty Place, 46th floor
;      CITY:  Philadelphia
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WordPerfect 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/458,568A
;      FILING DATE:  02-JUNE-1995
;      CLASSIFICATION:  435
```

```
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/065,146
;      FILING DATE:  05-MAY-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Leary Ph.D., Kathryn R.
;      REGISTRATION NUMBER:  36,317
;      REFERENCE/DOCKET NUMBER:  DFCI-0029
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 568-3100
;      TELEFAX:  (215) 568-3439
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  12001 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
     MOLECULE TYPE:  DNA (genomic)
     HYPOTHETICAL:  NO
     ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Herpes simplex virus
;      STRAIN:  Herpes Simplex Virus Type 1
US-08-458-568A-11


  Query Match             3.1%;  Score 58.6;  DB 1;  Length 12001;
  Best Local Similarity   53.5%;  Pred. No. 0.0038;
  Matches  144;  Conservative    0;  Mismatches  124;  Indels    1;  Gaps    1;

Qy       1 GGGCAGGAAGACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCG 60
Db    2109 GGGCGAGGGGCGGGAGGGGGCGAGGGGCGGGAGGGGGCGAGGGGCGGGAGGGGGCGAGGG 2050

Qy      61 GCGGGCGGGAGCCAGGCCCGGGCGGGGGCG-GGGGCGGCGGGGCCAGAAGAGGCGGCGGG 119
Db    2049 GCGGGAGGGGGCGAGGGGCGGGAGGGGGCGAGGGGCGGGAGGGGGCGAGGGGCGGTGGTG 1990

Qy     120 CCGCGCTCCGGCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAG 179
Db    1989 GTGCGCGGGCGCCCCCGGAGGGTTTGGATCTCTGACCTGAGATTGGCGGCACTGAGGTAG 1930

Qy     180 AAGATGCTGCAGTCCCTGGCCGGCAGCTCGTGCGTGCGCCTGGTGGAGCGGCACCGCTCG 239
Db    1929 AGATGCCCGAACCCCCCCGAGGGAGCGCGGGACGCGCCGGGGAGGGCTGGGGCCGGGGAG 1870

Qy     240 GCCTGGTGCTTCGGCTTCCTGGTGCTGGG 268
Db    1869 GGCTGGGGCCGGGGAGGGCTGGGGCCGGG 1841


RESULT   5
US-09-130-114-2
; Sequence 2, Application US/09130114
; Patent No. 5976807
; GENERAL INFORMATION:
;  APPLICANT: Horlick, Robert A.
;  APPLICANT: Damaj, Bassam B.
;  APPLICANT: Robbins, Alan K.
;  TITLE OF INVENTION: Eukaryotic Cells Stably Expressing Genes
;  TITLE OF INVENTION: From Multiple Transfected Episomes
;  FILE REFERENCE: 0867/1D903US1
;  CURRENT APPLICATION NUMBER: US/09/130,114
;  CURRENT FILING DATE: 1998-08-06
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
;   LENGTH: 1931
;   TYPE: DNA
;   ORGANISM: EBNA
US-09-130-114-2


  Query Match             3.1%;  Score 58.2;  DB 2;  Length 1931;
  Best Local Similarity   49.2%;  Pred. No. 0.0024;
  Matches  153;  Conservative    0;  Mismatches  158;  Indels    0;  Gaps    0;

Qy     489 GACTTCACCTCCGCGCTCTTCTTCGCCAGCACCGTGCTCTCCACCACAGGTTATGGCCAC 548
Db     443 gtcctcgtcctcctccccgtcctccccgtcctcgtcctcctccccgtcctccccgtcctc 502

Qy     549 ACCGTGCCCTTGTCAGATGGAGGTAAGGCCTTCTGCATCATCTACTCCGTCATTGGCATT 608
Db     503 cccgtcctcgtcctcctccccgtcctcgtcctcctccccgtcctccccgtcctcgtcctc 562

Qy     609 CCCTTCACCCTCCTGTTCCTGACGGCTGTGGTCCAGCGCATCACCGTGCACGTCACCCGC 668
Db     563 ctccccgtcctccccgtcctccccgtcctcgtcctcctccccgtcctcgtcctccccgtc 622

Qy     669 AGGCCGGTCCTCTACTTCCACATCCGCTGGGGCTTCTCCAAGCAGGTGGTGGCCATCGTC 728
Db     623 ctccccgtcctccccgtcctcgtcctccccgtcctcgtcctcctccccgtcctccccgtc 682

Qy     729 CATGCCGTGCTCCTTGGGTTTGTCACTGTGTCCTGCTTCTTCTTCATCCCGGCCGCTGTC 788
Db     683 ctccccgtcctcgtcctccccgtcctcgtcctccccgtcctcgtcctccccgtcctcgtc 742

Qy     789 TTCTCAGTCCT 799
Db     743 ctccccgtcct 753


RESULT   6
US-08-377-292-6
; Sequence 6, Application US/08377292
; Patent No. 5693615
;  GENERAL INFORMATION:
;    APPLICANT:  STONE, ROGER L.
;    TITLE OF INVENTION:  THERAPEUTIC FORMULAS FOR OSTEOINDUCTION
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  The Procter & Gamble Company
;      STREET:  11810 East Miami River Road
;      CITY:  Cincinnati
;      STATE:  Ohio
;      COUNTRY:  U.S.A.
;      ZIP:  45239-8707
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/377,292
;      FILING DATE:  23-JAN-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/243,435
;      FILING DATE:
;      APPLICATION NUMBER:  US/08/117,367
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Corstanje, Brahm J.
;      REGISTRATION NUMBER:  34,804
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  513-245-2858
;      TELEFAX:  513-741-3012
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2923 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-377-292-6
```

```
  Query Match             3.1%;  Score 58;  DB 1;  Length 2923;
  Best Local Similarity   48.7%;  Pred. No. 0.0031;
  Matches  187;  Conservative    0;  Mismatches  195;  Indels    2;  Gaps    1;

Qy      30 CGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGGAGCCAGGCCCGGGCGGGGGC 89
           || || ||  |  ||  |||| | |   || | ||  |||    ||| |   | ||  |
Db     134 CGCGGGGGCAGCCCGGCCGGGCGGGGATGCCGGGGCTGGGGCGGAGGGCGCAGTGGCTGT 193

Qy      90 GGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCGGCCGGTCTG--CGGCGTTGG 147
           |  || || |||| | |  | |  |  |   || || || ||||  |  |  || | |||
Db     194 GCTGGTGGTGGGGGCTGCTGTGCAGCTGCTGCGGGCCCCCGCCGCTGCGGCCGCCCTTGC 253

Qy     148 CCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGCAGTCCCTGGCCGGCAGCT 207
           ||   ||   |||    || || | || | ||  | ||  | |   |  |  |  | ||
Db     254 CCGCTGCCGCGGCCGCCGCCGCCGGGGGGCAGCTGCTGGGGGACGGCGGGAGCCCCGGCC 313

Qy     208 CGTGCGTGCGCCTGGTGGAGCGGCACCGCTCGGCCTGGTGCTTCGGCTTCCTGGTGCTGG 267
             | ||  | |  |  |  ||  |  ||  ||| | |||||   | || |  |||
Db     314 GCACGGAGCAGCCGCCGCCGTCGCCGCAGTCCTCCTCGGGCTTCCTGTACCGGCGGCTCA 373

Qy     268 GCTACTTGCTCTACCTGGTCTTCGGCGCAGTGGTCTTCTCCTCGGTGGAGCTGCCCTATG 327
               |   | | ||   |       | | |||| ||   | ||| ||| ||  |
Db     374 AGACGCAGGAGAAGCGGGAGATGCAGAAGGAGATCTTGTCGCTGCTGGGGCTCCCGCACC 433

Qy     328 AGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGAAGCGACGCTTCTTGGAGGAGCACGAGT 387
           |  || ||  |  || |  ||  |   ||| | |||  |       |   | |||| |||
Db     434 GGCCCCGGCCCCTGCACGGCCTCCAACAGCCGCAGCCCCCGGCGCTCCGGCAGCAGGAGG 493

Qy     388 GCCTGTCTGAGCAGCAGCTGGAGC 411
             | |    |||||||||| |  ||
Db     494 AGCAGCAGCAGCAGCAGCAGCTGC 517


RESULT   7
US-07-989-847-7
; Sequence 7, Application US/07989847
; Patent No. 5866364
;  GENERAL INFORMATION:
;    APPLICANT:  Israel, David
;    APPLICANT:  Wolfman, Neil M.
;    TITLE OF INVENTION:  Recombinant Bone Morphogenetic Protein
;    TITLE OF INVENTION:  Heterodimers, Compositions and Methods of Use.
;    NUMBER OF SEQUENCES:  30
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Legal Affairs, Genetics Institute, Inc.
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02140-2387
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Tape
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/989,847
;      FILING DATE:
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kapinos, Ellen J.
;      REGISTRATION NUMBER:  32,245
;      REFERENCE/DOCKET NUMBER:  GI-5192B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-876-1170
;      TELEFAX:  617-876-5851
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2923 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  circular
;    MOLECULE TYPE:  cDNA to mRNA
;    HYPOTHETICAL:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Homo sapiens
;      TISSUE TYPE:  Human placenta
;    IMMEDIATE SOURCE:
;      LIBRARY:  Stratagene catalog #936203 Human placenta
;      LIBRARY:  cDNA library
;      CLONE:  BMP6C35
;    POSITION IN GENOME:
;      UNITS:  bp
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  160..1701
;    FEATURE:
;      NAME/KEY:  mat_peptide
;      LOCATION:  1282..1698
;    FEATURE:
;      NAME/KEY:  mRNA
;      LOCATION:  1..2923
US-07-989-847-7


  Query Match             3.1%;  Score 58;  DB 2;  Length 2923;
  Best Local Similarity   48.7%;  Pred. No. 0.0031;
  Matches  187;  Conservative    0;  Mismatches  195;  Indels    2;  Gaps    1;

Qy      30 CGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGGAGCCAGGCCCGGGCGGGGGC 89
           || || ||  |  ||  |||| | |   || | ||  |||    ||| |   | ||  |
Db     134 CGCGGGGGCAGCCCGGCCGGGCGGGGATGCCGGGGCTGGGGCGGAGGGCGCAGTGGCTGT 193

Qy      90 GGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCGGCCGGTCTG--CGGCGTTGG 147
           |  || || |||| | |  | |  |  |   || || || ||||  |  |  || | |||
Db     194 GCTGGTGGTGGGGGCTGCTGTGCAGCTGCTGCGGGCCCCCGCCGCTGCGGCCGCCCTTGC 253

Qy     148 CCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGCAGTCCCTGGCCGGCAGCT 207
           ||   ||   |||    || || | || | ||  | ||  | |   |  |  |  | ||
Db     254 CCGCTGCCGCGGCCGCCGCCGCCGGGGGGCAGCTGCTGGGGGACGGCGGGAGCCCCGGCC 313

Qy     208 CGTGCGTGCGCCTGGTGGAGCGGCACCGCTCGGCCTGGTGCTTCGGCTTCCTGGTGCTGG 267
             | ||  | |  |  |  ||  |  ||  ||| | |||||   | || |  |||
Db     314 GCACGGAGCAGCCGCCGCCGTCGCCGCAGTCCTCCTCGGGCTTCCTGTACCGGCGGCTCA 373

Qy     268 GCTACTTGCTCTACCTGGTCTTCGGCGCAGTGGTCTTCTCCTCGGTGGAGCTGCCCTATG 327
               |   | | ||   |       | | |||| ||   | ||| ||| ||  |
Db     374 AGACGCAGGAGAAGCGGGAGATGCAGAAGGAGATCTTGTCGGTGCTGGGGCTCCCGCACC 433

Qy     328 AGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGAAGCGACGCTTCTTGGAGGAGCACGAGT 387
           |  || ||  |  || |  ||  |   ||| | |||  |       |   | |||| |||
Db     434 GGCCCCGGCCCCTGCACGGCCTCCAACAGCCGCAGCCCCCGGCGCTCCGGCAGCAGGAGG 493

Qy     388 GCCTGTCTGAGCAGCAGCTGGAGC 411
             | |    |||||||||| |  ||
Db     494 AGCAGCAGCAGCAGCAGCAGCTGC 517


RESULT   8
5187076-5
;Patent No. 5187076
;    APPLICANT: WOZNEY, JOHN M.;WANG, ELIZABETH A.;ROSEN,VICKI A.;
;CELESTE, ANTHONY J.
;    TITLE OF INVENTION: DNA SEQUENCES ENCODING BMP-6 PROTEINS
;    NUMBER OF SEQUENCES: 16
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/490,033
;      FILING DATE: 07-MAR-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 370,544
;      FILING DATE: 23-JUN-1989
;      APPLICATION NUMBER: 347,559
;      FILING DATE: 04-MAY-1989
;      APPLICATION NUMBER: 329,610
;      FILING DATE: 28-MAR-1989
```

```
;       APPLICATION NUMBER: 179,100
;       FILING DATE: 08-APR-1988
;       APPLICATION NUMBER: 179,101
;       FILING DATE: 08-APR-1988
;       APPLICATION NUMBER: 179,197
;       FILING DATE: 08-APR-1988
;       APPLICATION NUMBER: 28,285
;       FILING DATE: 20-MAR-1987
;       APPLICATION NUMBER: 31,346
;       FILING DATE: 26-MAR-1987
;       APPLICATION NUMBER: 943,322
;       FILING DATE: 17-DEC-1986
;       APPLICATION NUMBER: 880,776
;       FILING DATE: 01-JUL-1986
;SEQ ID NO:5:
;       LENGTH: 2923
5187076-5


  Query Match             3.1%;  Score 58;  DB 5;  Length 2923;
  Best Local Similarity   48.7%;  Pred. No. 0.0031;
  Matches  187;  Conservative    0;  Mismatches  195;  Indels    2;  Gaps    1;

Qy      30 CGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGGAGCCAGGCCCGGGCGGGGGC 89
           || || ||  |  ||  |||| | |   || | ||  |||    ||| |   | ||  |
Db     134 cgcgggggcagcccggccgggcggggatgccggggctggggcggagggcgcagtggctgt 193

Qy      90 GGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCGGCCGGTCTG--CGGCGTTGG 147
           |  || || |||| | |  | |  |  |   || || || |||| |  |  || | |||
Db     194 gctggtggtgggggctgctgtgcagctgctgcgtgcccccgccgctgcggccgccttgc 253

Qy     148 CCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGCAGTCCCTGGCCGGCAGCT 207
           ||   ||   |||    || || | || | ||  | ||  | |   |  |  |  | ||
Db     254 ccgctgccgcggccgccgccgcgggggggcagctgctgggggacggcgggagccccggcc 313

Qy     208 CGTGCGTGCGCCTGGTGGAGCGGCACCGCTCGGCCTGGTGCTTCGGCTTCCTGGTGCTGG 267
           | ||  | |  |  |  |  ||  |  ||  ||| | |||||   | || |  |||
Db     314 gcacggagcagccgccgccgtcgccgcagtcctcctcgggcttcctgtaccggcggctca 373

Qy     268 GCTACTTGCTCTACCTGGTCTTCGGCGCAGTGGTCTTCTCCTCGGTGGAGCTGCCCTATG 327
           |    | | ||   |      | | |||| ||   | ||| ||| ||  |
Db     374 agacgcaggagaagcgggagatgcagaaggagatcttgtcggtgctggggctcccgcacc 433

Qy     328 AGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGAAGCGACGCTTCTTGGAGGAGCACGAGT 387
           |  || ||  |  || |  || |   ||| | |||  |      |   | |||| |||
Db     434 ggccccggcccctgcacgtcctccaacagccgcagcccccggcgctccggcagcaggagg 493

       388 GCCTGTCTGAGCAGCAGCTGGAGC 411
           | |    |||||||| |  ||
Db     494 agcagcagcagcagcagctgc 517


RESULT   9
US-08-141-893-1/c
; Sequence 1, Application US/08141893
; Patent No. 5489519
;  GENERAL INFORMATION:
;    APPLICANT:  Cole, Susan P.C.
;    APPLICANT:  Deeley, Roger G.
;    TITLE OF INVENTION:  MULTIDRUG RESISTANCE PROTEIN
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 STATE STREET, SUITE 510
;      CITY:  BOSTON
;      STATE:  MASSACHUSETTS
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/141,893
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/966,923; 08/029,340
;      FILING DATE:  27-OCT-1992; 8-MAR-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DeConti, Giulio A. Jr.
;      REGISTRATION NUMBER:  31,503
;      REFERENCE/DOCKET NUMBER:  PQI-002
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5149
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5011 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  196..4788
US-08-141-893-1


  Query Match             2.9%;  Score 54.4;  DB 1;  Length 5011;
  Best Local Similarity   54.5%;  Pred. No. 0.02;
  Matches  109;  Conservative    0;  Mismatches   91;  Indels    0;  Gaps    0;

Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  ||||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCG 129
           | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |
Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGC 189
           |   ||||||  |||   |||   |||   ||||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
           | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5


RESULT  10
US-08-463-092B-1/c
; Sequence 1, Application US/08463092B
; Patent No. 5766880
;  GENERAL INFORMATION:
;    APPLICANT:  Cole, Susan P.C.
;    APPLICANT:  Deeley, Roger G.
;    TITLE OF INVENTION:  ISOLATED NUCLEIC ACID MOLECULES ENCODING
;    TITLE OF INVENTION:  MULTIDRUG RESISTANCE PROTEINS
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PARTEQ RESEARCH & DEVELOPMENT INNOVATIONS
;      STREET:  Queen's University at Kingston
;      CITY:  Kingston
;      STATE:  Ontario
;      COUNTRY:  CANADA
;      ZIP:  K7L 3N6
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII text
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/463,092B
;      FILING DATE:  05-JUN-1995
```

```
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  07/966,923
;       FILING DATE:  27-OCT-1992
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/029,340
;       FILING DATE:  8-MAR-1993
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/141,893
;       FILING DATE:  26-OCT-1993
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/407,207
;       FILING DATE:  20-MAR-1995
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Steeg, Carol Miernicki
;       REGISTRATION NUMBER:  39,539
;       REFERENCE/DOCKET NUMBER:  Q1546
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (613) 545-2342
;       TELEFAX:  (613) 545-6853
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  5011 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  cDNA
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  196..4788
US-08-463-092B-1


  Query Match             2.9%;  Score 54.4;  DB 1;  Length 5011;
  Best Local Similarity   54.5%;  Pred. No. 0.02;
  Matches  109;  Conservative    0;  Mismatches   91;  Indels    0;  Gaps    0;

Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  ||||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCCGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGACGCGGCGGGCCGCGCTCCG 129
             | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |
Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGCCGGTGGAGAAGATGCTGC 189
             |   ||||||  |||   |||   |||   |||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
             | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5


RESULT  11
US-08-463-092B-3/c
; Sequence 3, Application US/08463092B
; Patent No. 5766880
;  GENERAL INFORMATION:
;    APPLICANT:  Cole, Susan P.C.
;    APPLICANT:  Deeley, Roger G.
;    TITLE OF INVENTION:  ISOLATED NUCLEIC ACID MOLECULES ENCODING
;    TITLE OF INVENTION:  MULTIDRUG RESISTANCE PROTEINS
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PARTEQ RESEARCH & DEVELOPMENT INNOVATIONS
;      STREET:  Queen's University at Kingston
;      CITY:  Kingston
;      STATE:  Ontario
;      COUNTRY:  CANADA
;      ZIP:  K7L 3N6
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII text
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/463,092B
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/966,923
;      FILING DATE:  27-OCT-1992
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/029,340
;      FILING DATE:  8-MAR-1993
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/141,893
;      FILING DATE:  26-OCT-1993
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/407,207
;      FILING DATE:  20-MAR-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Steeg, Carol Miernicki
;      REGISTRATION NUMBER:  39,539
;      REFERENCE/DOCKET NUMBER:  Q1546
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (613) 545-2342
;      TELEFAX:  (613) 545-6853
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5011 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  196..4788
US-08-463-092B-3


  Query Match             2.9%;  Score 54.4;  DB 1;  Length 5011;
  Best Local Similarity   54.5%;  Pred. No. 0.02;
  Matches  109;  Conservative    0;  Mismatches   91;  Indels    0;  Gaps    0;

Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  ||||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCG 129
             | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |
Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGC 189
             |   ||||||  |||   |||   |||   |||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
             | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5


RESULT  12
US-08-462-109A-1/c
; Sequence 1, Application US/08462109A
; Patent No. 5882875
;  GENERAL INFORMATION:
```

```
;    APPLICANT:  Cole, Susan P.C.
;    APPLICANT:  Deeley, Roger G.
;    TITLE OF INVENTION:  METHODS FOR IDENTIFYING
;    TITLE OF INVENTION:  MULTIDRUG RESISTANT TUMOR CELLS
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII text
     CURRENT APPLICATION DATA:
       APPLICATION NUMBER:  US/08/462,109A
       FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/966,923
;      FILING DATE:  27-OCT-1992
;      APPLICATION NUMBER:  08/029,340
;      FILING DATE:  8-MAR-1993
;      APPLICATION NUMBER:  08/141,893
;      FILING DATE:  26-OCT-1993
;      APPLICATION NUMBER:  08/407,207
;      FILING DATE:  20-MAR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DeConti, Giulio A. Jr.
;      REGISTRATION NUMBER:  31,503
;      REFERENCE/DOCKET NUMBER:  PQI-002CP4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5011 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  196..4788
-08-462-109A-1


  Query Match             2.9%;  Score 54.4;  DB 2;  Length 5011;
  Best Local Similarity   54.5%;  Pred. No. 0.02;
  Matches  109;  Conservative    0;  Mismatches   91;  Indels    0;  Gaps    0;

Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  ||||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCG 129
             | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |
Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGC 189
             |  ||||||  |||   |||   |||   |||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
           | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5


RESULT  13
US-08-462-109A-3/c
```

```
; Sequence 3, Application US/08462109A
; Patent No. 5882875
;  GENERAL INFORMATION:
;    APPLICANT:  Cole, Susan P.C.
;    APPLICANT:  Deeley, Roger G.
;    TITLE OF INVENTION:  METHODS FOR IDENTIFYING
;    TITLE OF INVENTION:  MULTIDRUG RESISTANT TUMOR CELLS
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII text
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,109A
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/966,923
;      FILING DATE:  27-OCT-1992
;      APPLICATION NUMBER:  08/029,340
;      FILING DATE:  8-MAR-1993
;      APPLICATION NUMBER:  08/141,893
;      FILING DATE:  26-OCT-1993
;      APPLICATION NUMBER:  08/407,207
;      FILING DATE:  20-MAR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DeConti, Giulio A. Jr.
;      REGISTRATION NUMBER:  31,503
;      REFERENCE/DOCKET NUMBER:  PQI-002CP4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5011 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  196..4788
US-08-462-109A-3


  Query Match             2.9%;  Score 54.4;  DB 2;  Length 5011;
  Best Local Similarity   54.5%;  Pred. No. 0.02;
  Matches  109;  Conservative    0;  Mismatches   91;  Indels    0;  Gaps    0;

Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  ||||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCG 129
             | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |
Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGC 189
             |  ||||||  |||   |||   |||   |||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
           | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5
```

```
RESULT  14
US-08-460-907B-1/c
; Sequence 1, Application US/08460907B
; Patent No. 5891724
;  GENERAL INFORMATION:
;    APPLICANT:  Deeley, Roger G.
;    APPLICANT:  Cole, Susan P.C.
;    TITLE OF INVENTION:  METHODS FOR CONFERRING MULTIDRUG
;    TITLE OF INVENTION:  RESISTANCE ON A CELL
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PARTEQ RESEARCH & DEVELOPMENT INNOVATIONS
;      STREET:  Queen's University at Kingston
;      CITY:  Kingston
;      STATE:  Ontario
;      COUNTRY:  CANADA
;      ZIP:  K7L 3N6
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII text
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/460,907B
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/966,923
;      FILING DATE:  27-OCT-1992
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/029,340
;      FILING DATE:  8-MAR-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/141,893
;      FILING DATE:  26-OCT-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/407,207
;      FILING DATE:  20-MAR-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Steeg, Carol Miernicki
;      REGISTRATION NUMBER:  39,539
;      REFERENCE/DOCKET NUMBER:  Q1551
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (613) 545-2342
;      TELEFAX:  (613) 545-6853
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5011 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  196..4788
US-08-460-907B-1


  Query Match             2.9%;  Score 54.4;  DB 2;  Length 5011;
  Best Local Similarity   54.5%;  Pred. No. 0.02;
  Matches  109;  Conservative    0;  Mismatches   91;  Indels    0;  Gaps    0;

Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  |||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCG 129
             | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |

Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGC 189
             |   |||||| |||   |||   |||   |||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
           | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5


RESULT  15
US-08-460-907B-3/c
; Sequence 3, Application US/08460907B
; Patent No. 5891724
;  GENERAL INFORMATION:
;    APPLICANT:  Deeley, Roger G.
;    APPLICANT:  Cole, Susan P.C.
;    TITLE OF INVENTION:  METHODS FOR CONFERRING MULTIDRUG
;    TITLE OF INVENTION:  RESISTANCE ON A CELL
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PARTEQ RESEARCH & DEVELOPMENT INNOVATIONS
;      STREET:  Queen's University at Kingston
;      CITY:  Kingston
;      STATE:  Ontario
;      COUNTRY:  CANADA
;      ZIP:  K7L 3N6
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII text
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/460,907B
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/966,923
;      FILING DATE:  27-OCT-1992
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/029,340
;      FILING DATE:  8-MAR-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/141,893
;      FILING DATE:  26-OCT-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/407,207
;      FILING DATE:  20-MAR-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Steeg, Carol Miernicki
;      REGISTRATION NUMBER:  39,539
;      REFERENCE/DOCKET NUMBER:  Q1551
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (613) 545-2342
;      TELEFAX:  (613) 545-6853
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  5011 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  196..4788
US-08-460-907B-3
```

Query Match 2.9%; Score 54.4; DB 2; Length 5011;
Best Local Similarity 54.5%; Pred. No. 0.02;
Matches 109; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

```
Qy      10 GACGGCGCTGCCCGGAGGAGCGGGGCGGGCGGGCGCGCGGGGGAGCGGGCGGCGGGCGGG 69
           ||  ||  |||| |  |    || |  ||||||| |  || || | | |    || | ||
Db     204 GAGCGCCATGCCGGTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGG 145

Qy      70 AGCCAGGCCCGGGCGGGGGCGGGGGCGGCGGGGCCAGAAGAGGCGGCGGGCCGCGCTCCG 129
              | ||| ||||||| ||||||  | | | |||  |     | | | ||| ||   |
Db     144 TTGCTGGCGCGGGCGGCGGCGGGCACCGGGCGGCGGGTGATCGGGCCCGGCTGCTGGCGC 85

Qy     130 GCCGGTCTGCGGCGTTGGCCTTGGCTTTGGCTTTGGCGGCGGCGGTGGAGAAGATGCTGC 189
              |   ||||||  |||   |||   |||   ||||||||||| || | ||
Db      84 TAGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGGAGCCG 25

Qy     190 AGTCCCTGGCCGGCAGCTCG 209
           | ||  |||||  |   ||
Db      24 GGGCCGGGGCCGCAACGCCG 5
```

Search completed: February 13, 2001, 19:52:10
Job time: 20591 sec